denver apple pi Seed

VOLUME 5 NUMBER 12

DECEMBER 1983

NEWSLETTER OF THE DENVER APPLE PI COMPUTER USERS' CLUB

Seasons Greetings

From APPLE PI

Drawn with a GIBSON LIGHT PEN on an APPLE //e

denver apple pi Seed

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1983 DECEMBER 1983

SUN	MON	TUE	WED	THU	FRI	SAT
				1 General Meet	2	3
NM 4	FQ 12	FM 19	LQ 26			
4	5	6	7 Board Meeting	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

PRINTED IN U.S.A.

MEMBERSHIP INFORMATION
$10 APPLICATION FEE AND $18 PER YEAR DUES

APPLE PI is an Apple Computer Users Group - not affiliated with Apple Computer, Inc. - that provides many member benefits, some of which are:

MONTHLY MEETINGS-

On the first Thursday of each month at 7:00 p.m. APPLE PI holds its general meeting at the Greene Center, Colorado School of Mines Campus, Golden, Colorado. This meeting is a combination of an informational meeting, new product announcements, and a short business meeting. The members are given an opportunity to buy computer supplies a little above cost. Software products are given away as door prizes.

On the Sunday following the general meeting there is an informal meet which is usually held at the home of a member, the location of which is announced in the newsletter and at the general meeting. This meeting is from 10:00 a.m. until 3:00 p.m. and provides a more informal environment to seek or give advice to fellow members and get copies of programs from the APPLE PI Library. Both of these meetings are open to the general public but only members have access to products that are sold.

PROGRAM LIBRARY-

APPLE PI currently has a library of 8,000 programs. All current disks are in 16 sector (3.3, Pascal, CP/M) format and are available to any member. APPLE PI Members can obtain copies from the library:

1) By coming to the monthly informal meeting (swap meet);
2) By written request to the club librarian (at any meeting or by mail);
3) By electronic mail on APPLE PI's bulletin board system:

When requesting copies, please include the following information:

a) Your Name, Address, and Phone number;
b) Disk Category and Volume Number;
c) Blank Diskette(s) or request to utilize a new disk (member will be charged $2.50 for the new disk);
d) Copy fee ($1.00 per diskette side unless you donate a program you have written at the same time and fill out a Progam Submission Form). Only complete sides of disks will be copied.
e) Instructions on how the disks are to be returned, i.e., at the next meeting, by mail, etc. (IF RETURN IS TO BE BY MAIL PLEASE BE SURE TO INCLUDE A STAMPED, SELF-ADDRESSED FLOPPY DISK MAILER, AND $2.50 TO COVER SHIPPING COSTS).

DISK OF THE MONTH-

Each month a collection of some of the best programs donated to APPLE PI during the preceding month are made available. The DOM can be purchased at any group meeting or by mail.

DUES-

Current membership dues are $18.00 per year, with a one-time application fee of $10.00. Checks should be made payable to APPLE PI.

$ø8øø This is a Presidential Address

We will be having a special X-mas smash on Dec. 1st! Please come. See the cover for details.

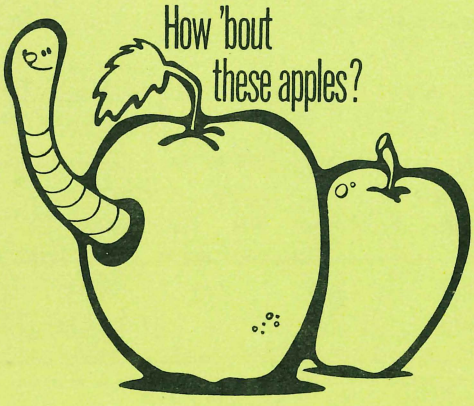
In January, Bob Mayes will demonstrate new and old Microsoft products. This will include Multiplan "expert systems" and a new CPM/ 80 column/ 64K card for the IIe.

Ron Stock has volunteered to be the Club's general counsel together with John Soma. Ron specializes in land use management and John is a law professor at DU. Thank you Ron and John!

Thanks to Pat Lamprey of the Lakewood Library, we will now have a product review file available at the informal meetings! Thanks Pat!

I look forward to seeing you all at the December meeting!

– D. Eisler



Tax Program Set

The program for our December meeting promises to be a timely one. P.J Raval, an account executive with E.F. Hutton, will provide tips on how to save money with your computer. Mr. Raval, an MBA from Rutgers University and an expert in financial planning, will use two programs in his presentation: Aardvark software's "Individual Tax Plan" and "Tax Free Retirement Income Planning using E.F. Hutton's 'Value Plan' Illustration".

The meeting will be held on Dec. 1, affording us plenty of time to put some of his ideas into practice before tax time rolls around. Be sure to attend and learn from this interesting program.

LIBRARY LISTER

NOW APPEARING!

The Apple Pi catalog disk now contains Library Lister, a personal domain listing program. The program lists the catalog disk 49.5 times faster than the old program. Since it is personal domain software, you get the program free, but you are asked to send $2 directly to the author if you like it. The author, in turn, sends you a validation sticker for your copy. It's all based on the "Try-it before you buy-it" theory. So, be sure to get your catalog disk updated SOON so you can try Library Lister. I'm sure you'll like it.

SECRETARY'S REPORT

(NOV. 3, 1983 MEETING)

The meeting was called to order at 7:Ø5pm by David Eisler at the Greene Center, Colorado School of Mines. Dave made the following announcements:

-- The December program will be presented by P.J. Raval on tax planning. We will also have a Christmas surprise for the membership.

-- The January program will be on Multiplan.

-- Ron Stock has volunteered to be the Club's legal representative. Ron is a general counsul with experience in contract law and land management.

-- The deadline for general SEED articles will be at the General Meeting preceding the month in which the article will appear. (This does not include regularly appearing articles, such as the president's editorial or minutes of the meeting etc.)

-- Our Educational Coordinator, Maureen Brucker, is seeking to formulate policies for the club's long-range plan. Her thoughtful questions will be subject to review and discussion at the next board meeting. To have input into this important matter, Maureen may be contacted at 32Ø-Ø4Ø1.

Other announcements included:

-- Terry Wiles reported on the Apple III group which meets on the 3rd Thursday of each month at Crow Realty (on Hampden & I 25). The group, which is small, has been meeting for about a year now, holds SWAP meets and publishes a newsletter. Dues are $25. a year.

-- Walter Barton, the Computer Manager for the Central Colorado Library System (85 members) would like to acquire all of Apple Pi's library (which he suggests have a special "hello" program acknowleging their source and the advantages of membership) Although the disks will presumably not be copied by others, there was concern from the floor about the policy in general (i.e. school systems can currently join the club and copy disks). The matter was tabled for further consideration and discussion.

-- Trent Hein demonstrated Randy Ansley's answer to the "Byte Bat": "the Computer Bug Trap" which will be for sale through Apple Pi for under $5.ØØ.

-- Bob Vitry, as Advertising Editor and Store Sales Representative, discussed the Club's store membership package, and store sale's at meetings. He noted that the Club cannot and does not endorse items sold by these vendors.

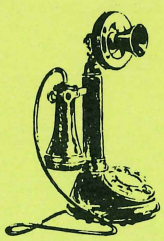
-- The DOM was demonstrated by Bob Hein.

-- The door prize consisted of a box of disks and was won by James Gary.

-- Bob Gaiser demonstrated the Koala Pad, drawing a picture of "our president". Bob is offering the pads to Pi members at the special reduced price of $99.ØØ. If interested, call Bob at 779-4Ø33.

The main program was presented by Ron Dries, of Jefferson County Schools, on computers in education. He described the decision to purchase Apples as opposed to other brands of computers, and the overall plan to incorporate computers into the curriculum from grades 1 through 12 and in Adult Ed. as well.

The meeting was adjourned at 9:25pm.



TELECOMMUNICATIONS
DENVER BBS NUMBERS

==========

Apple Pi	469-7541
Aurora-Net	343-84Ø1
Biz-Net	798-8176
Cheyenne Mountain	753-1554
Computer-Line	758-3441
The Controller Board	69Ø-9423
GBBS II	693-1Ø64
Lakewood RCPM/RBBS	985-11Ø8
The Neutral zone	985-9184
Off the wall	443-3367
PETULA	232-85Ø9
RB Robot/IBMPC	279-5657
RCPM/RBBS	499-9169
Remote North Star	444-7231
TBBS#1 (Apparat)	741-4Ø71
TBBS#2 (UFONET)	278-4244
TBBS-Software Review	695-4518
The Testing Zone	427-7114

==========

For corrections, contact T.R. Hein
at (3Ø3) 424-8357

EXPRESS YOURSELF!

SPECIAL OFFER: Silk-screened T-Shirts and hats made just for *COMPUTER ENTHUSIASTS!*

SHIRTS are high-quality, US-made, and hand-screened with your choice of:

COMPUTER JOCK (S2 athletic grey)

COMPUTING TAKES BRAINS (S4 navy)

HIGH-TECH HUMAN (S5 orange)

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Make checks to:
"ACTION POTENTIAL"
Allow 3-7 wks. deliv.

ACTION POTENTIAL
Dept. DAP P. O. Box 069
Claymont, DE 19703

Satisfaction Guaranteed or Money Back!
Offer ends 1/15/84. Order soon for holidays!

LIBRARIAN'S REPORT

A word of thanks is extended to Mr. Bob Houtz for his help over the past months in making library copys for members at the swap meets. Without the assistance of people like Bob and Dan Bentz, the club's software library wouldn't be as successful as it has been over the past months. Bob Houtz has also donated to the club a set of excellent pascal disks. After looking at these disks, I believe the best way to make them available to the membership is to sell the set of three disks together as one package. These will become available at the December general meeting for a cost of $12.5Ø. A volunteer is needed to write some documentation to be sold with this set.---CALL ME AND VOLUNTEER---

For December, we have the following DOS 3.3 DOM available:

Denver's Apple Pi Disk of the Month
#041 DECEMBER 83 DOM

APPLE PI DECEM PICTR.HELLO		STRING
HANGMAN	DOGSTAR ADVENTURE	LOST TREASURE
INFORMATION MANAGER	CLOCK.LOGO	TRACE.LOGO
BUG.LOGO	HOROSCOPE.LOGO	SNOWFLAKE.LOGO
OTHELLO.LOGO	MONTE-CARLO (GERMAN)	MORESPROGRAMM VON DL8
PLANTS & RABBITS	RANDOM-LOCATABLE CHR$	THE DEFOGGER
T-S-D EXERCISE	PYTHAGOREAN TRIPLES	COMPLETE SENTENCE GEN
IN A SOMEWHAT SNOWY E	ACADEMY AWARDS	LIFE

Here are some brief highlights of the DOM:

STRING - A program drawing a random graphic display
DOGSTAR ADVENTURE - Adventure through space
INFORMATION MANAGER - Personal filing system
SNOWFLAKE.LOGO - LOGO program
MONTE-CARLO - Math program in German
MORSEPROGRAMM VON DL8PI - German morse code
PLANTS & RABBITS - Math multiplication simulation
T-S-D EXERCISE - Story problem
PYTHAGOREAN TRIANGLES - Displays pythagorean triangles
ACADEMY AWARDS - Quiz on academy winners

Not to sound like a broken record, but I shall continue to remind all members to update their catalog disk if they haven't done so in the last two months.

DON'T FORGET TO COME TO THE DECEMBER MEETING. This meeting will have a short demo to be followed by an informal Christmas party where you can get copies of the library made for you at a reduced price (price to be announced at the meeting). In addition, I understand that there will be new items available for a hands on demonstration. Come see what you can put on your "wish list" for Christmas + enjoy meeting other members over refreshments which will be provided.

Bob Hein
Librarian

MEETING SCHEDULE

DECEMBER: Our December program will be a presentation by P.J. Raval on "Saving Tax Dollars with Your Computer". The additional features will be a Christmas party and SWAP meet. (There will be no separate SWAP Meet in December) Because we will have a somewhat crowded agenda, the meeting will begin, informally, at 6:30 instead of the usual 7:00.

JANUARY: The scheduled speaker for the January Meeting will be Bob Mayes, Microsoft Representative, who will speak on Multiplan, Expert Systems and a new card for the IIe.

"SWAP" Meet

There will not be a separate SWAP Meet in December.

The January SWAP Meet will be held at "The Pond" Clubhouse, hosted by Mr. & Mrs. Gayle McClish.

Directions: North on Wadsworth to 88th. Turn left on 88th to Garrison St. Turn left on Garrison and go to the first right. Follow that street to "The Pond" Clubhouse. For further information call Gayle McClish 457-5258 (home) or 423-2014 (Clubhouse)

KNOW THYSELF?
THY MATE? THY KIDS? THY FRIENDS?

Apple computer generated astrology charts make wonderful Christmas gifts. ASTRO-SCOPE, a handsomely bound print-out (in plain English) of your natal chart for only $7.10 (special price to Apple Pi members) Send name, date (including exact time) and place of birth to:

STORTZ STARCHART SERVICE
2834 E. 5TH AVE.
DENVER, CO 80206

For additional information, call Miriam Stortz at 377-5587.
Gift Certificates also available.

STUFF

SEED FEATURE WRITERS WANTED

"Dear Johnny Appleseed, my computer just blew up all over me! What should I do?" Do you like to give advice? There's a place for you on the SEED Staff.

Are you interested in "The Games People Play"? How about reviewing them for the SEED?

Other areas that need attention are serious reviews of both hardware and software, business applications, the special needs of educators. In fact, almost anything you can think of we can use.

To help with the SEED, do one of the following:

1. Bring articles to the General Meeting and give them to the Editor or any of the other officers.
2. Leave a message or an article on the BBS under Apple Pi SEED.
3. Mail articles to The SEED; P.O. Box 17467; Denver, CO 80217.
4. Call Randy Ansley at 429-4219 (or any of the other officers)

LOGO *A Guide to Dialect Choices*

In the beginning there was created M.I.T. Logo at the Artificial Intelligence Lab at M.I.T.. This language was developed as a subset of Lisp in order to give preteenagers a way of exploring mathematics and computers through an easily learned, extremely powerful and controlable tool.

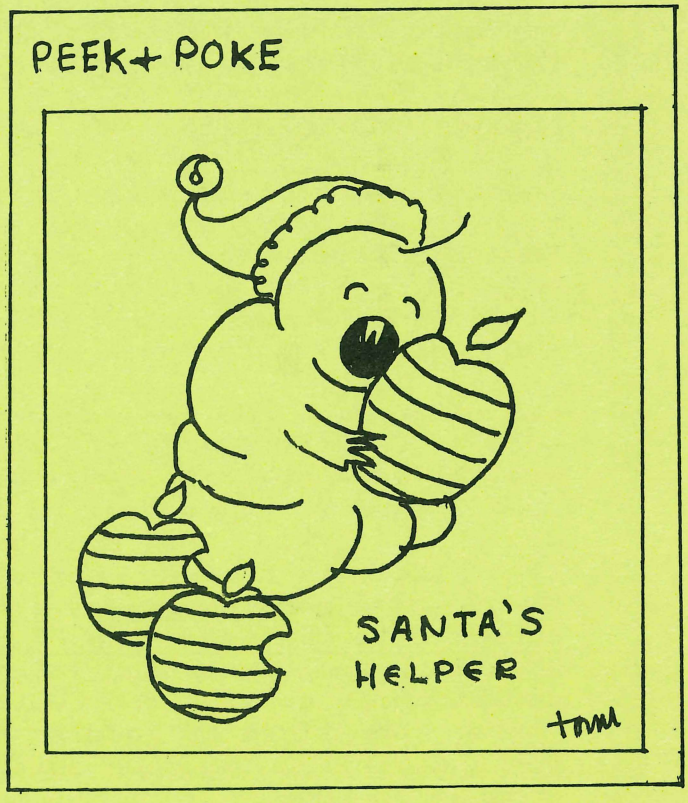
The granddaddy of microcomputer Logo is M.I.T.Logo which is still marketed by Krell Software of Stoney Brook, NY. Aside from its historical appeal, this Logo is accompanied by a cleaver demo disk fondly called: Alice in Logoland. The demo is geared to the junior high age student.

Terrapin Logo also faithfully follows the commands of M.I.T.Logo and was the first real expansion of the APPLE MICROCOMPUTER branch of the language involving music, list processing, and a simplified keyboard allowing preschoolers to take their place at the keyboard and teach the computer. To date, Terrapin and Krell Logo are the only Logo forms for the Apple which support robotics.

Logo Computer Systems in Lachine, Quebec were the developers of Apple Logo. As with the preceeding Logos, this is considered to be a completely formed and mathematically correct language. At the time of its release, the list processing mechanisms of this Logo were far superior to the seriously bug-ridden Terrapin 1.1 in this important area. The ability to 'bury' proceedures, makes this dialect attractive to some. For those who must use Apple II+ and //e machines, this Logo contains a unique feature: It will support both upper AND lower case letters, prints on the screen in upper case and proceeds without a hitch!!! Unlike Terrapin, Apple Logo will fully support sprite boards without a linguistic and manual rewrite.

Choosing a Logo depends completely on uses. The commands are not so very different that a regular user of the two standards--Terrapin/Krell and Apple -- should find the shifting confusing.

Maureen D. Brucker



The Accountant

Software review by Ed Wood

THE ACCOUNTANT, from Decision Support Software is an integrated finance data base system, ideal for managing personal budgets, and frequently used for small businesses as well. My wife and I discovered this program as we were searching for an alternative to the PERSONAL FINANCE MANAGER. I wanted a more powerful program. Since my wife (a non-computer hobbiest) manages the budget, ease of use was of paramount importance. After a year's experience with THE ACCOUNTANT we can recommend this program without reservation.

The major competitive offering is THE HOME ACCOUNTANT, at about half the price of THE ACCOUNTANT. The price may deter some, but as we shall see, THE ACCOUNTANT is well worth its price of $129 (an additional $30 for the optional Visicalc interface is recommended). Remember, that this type of program is frequently tax deductable, making the price even less sensitive.

This is a double entry bookkeeping system, which makes its power greater than that which can be achieved with a simple single entry system. In spite of the power, the system is fast operating and quite easy to use.

There are several versions of THE ACCOUNTANT available. Version 4, reviewed here, is the basic program for the Apple II+. A Version 5 designed for the Apple IIe and two advanced versions offer all that follows and then some.

System Configuration

The minimum configuration for THE ACCOUNTANT is an Apple II+ and one disk drive. I find two drives useful to minimize disk swapping when the data base contains a lot of data. Full value of the package can only be realized with a printer. Any 80 column printer will do. The Visicalc interface is recommended if you wish to customize reports, and this obviously requires the Visicalc program.

For backups of the data or program disks you can use any copy program, such as COPY on the System Master. Since much of the program is written in Applesoft, it is modifiable should that be necessary. A copy protection chip must be inserted into the game paddle socket to run the program. This copy protection scheme provides great flexibility in backups, but does create a bit of a hassle if you wish to use game paddles or joysticks for games as well. I use the game socket extender from Happ Electronics (GS-2) to minimize the hassle. This is a zero insertion force socket extender with a piggy back socket which enables the copy protection chip to remain within the Apple. Joysticks or paddles must be removed from the zero insertion force extension (mounted outside the Apple) in order to allow the program to work.

For $149, you will receive a program disk, a utility disk used for reconciliation and month end reports, a Visicalc interface disk, and an excellent manual. You'll also receive support by letter or phone from DSS, as needed, and occasional letters which keep you informed of developments, tricks, and modifications.

Building the data base

Ease of use was obviously a prime consideration when designing the data input routine. Numeric formatting is in $12,345.00 format rather that the $12345 format of other programs. Entry is menu driven for the most part. You may have up to 63 accounts (100 accounts in the IIe version). These may be described in any way you wish.

Most data is entered one transaction at a time. You may, however, use up to 9 sets of automatic transactions at any time during the month. These are typically used to enter the monthly budgets, paychecks, automatic bank transactions, or anything else that is a standard entry for you. These automatic transactions need not be made at the same time.

When entering a transaction's data, you will enter the date, description, and the accounts to be debited and credited. Understanding of debits and credits is not needed, however. If you wish, you may use the option to have automatic prompting to increase or decrease, and ignore debits and credits. Next the amount and code will be entered.

Codes can be most important. You may want to flag an entry as a business expense, tax deduction, interest expense, medical expense, or any other flag of your choosing. Having only one code, as in THE HOME ACCOUNTANT can be a real limitation when income tax time comes around.

Ensuring correct data is easy. After you have entered data, you will be requested to verify it before it is entered into the data base. If an error is detected after the transaction has been entered into the data base, a transaction can be rectified at any time - all data except the date may be changed. If an omission is discovered, you may back date an entry, although this is not recommended as a normal procedure, since file restructuring is required. Although this file restructuring is a simple keystroke command, it may take 30 minutes of machine time.

Using the data base

Information being recalled from the data base can be presented either on the screen or on hardcopy. You may retrieve a single transaction or a range of transactions in any code, account, in any range of dates. If several transactions are being recalled, the data is presented a screen at a time, not one transaction at a time. You may, as an option, have the data scroll by rather than viewing it screen by screen.

Searching through the data base for information can be quite time consuming. If there are some accounts you expect to search through regularly, they can be inverted, which speeds up searching considerably, although data entry is slowed down a bit.

The most common report used is the balance sheet, usually run after each data entry session. This is the report that will tell you at a glance how much you have remaining in each budgeted account, the outstanding balance on credit cards, your checkbook balance, etc.

You may request at any time a tabular or lo-res graphical summary of any account. Unfortunately, the only data available in this option is the balance at the end of each month in each account. Since I prefer to see the amount spent in each account aand the amount of under/over spending rather than the balance in each account, I use the Visicalc interface to reformat the data to present it in the way I want.

The monthly summary report will give you a hardcopy of all transactions in each account and in each code. I usually have 150 to 200 transactions per month, and find that the monthly report takes about 45 minutes to print out on my Epson MX-80.

The Visicalc interface module can be used to give you customized reports, or DIF transfer to Visiplot hi-res graphs if desired. There is a template included that can be used to project year end 1040 tax form and expected tax liabilities.

To ensure data integrity, reconciliation with your checkbook is recommended and remarkably easy, using the utility disk. Even more powerful, is the ability to reconcile any account you wish. This is useful for reconciling charge cards, expense accounts, etc.

Summary

Try THE ACCOUNTANT. It is a pleasure to find a program this powerful, and easy to use. This is a premier example of excellence in programming and usefullness in personal computing.

DISK OF THE MONTH ORDER FORM

This form is for those members who are unable to attend the next meeting of Apple Pi and would like to purchase a DOM via mail. DOMs will still be available at the monthly meeting and swap meet.

QUANITY	ITEM	UNIT PRICE	TOTAL
_____	DOS 3.3 DOM - December 83	$5.00	_____
_____	December 83 Pascal DOM	$5.00	_____
_____	December 83 CP/M DOM	$5.00	_____
	Postage and Floppy Mailer	$1.25	1.25
	TOTAL		_____

Send form to Apple Pi, P.O. Box 17467, Denver, CO 80217

Reprinted from:

THE MICHIGAN APPLE-GRAM

DISABLING PASCAL LOWER CASE DISPLAY

by Bob Boufford

Several articles and programs have been published or distributed for patching System.Apple to allow true lower case display with appropriate character generator chip. Most of the articles recommend that any disks with the modified System.Apple be set aside strictly for word processing. However, I find having lower case display very helpful during program development. I like to enter all my program statements in upper case and all comments in lower case. This makes it easier for me to distinguish between the two types of statement All of my Pascal disks are modified for lower case display on my Apple.

A major probloem, however, of converting all Pascal disks is when it comes time to work on an upper case only Apple. I occasionally encounter this problem when using the Apples at work. This resulted in maintaining modified and unmodified disks with System.Apple and transfering files between the two disks.

Recently, in the Call A.P.P.L.E. in Depth, *All about Pascal*; an article by Dave Lieberman was printed on making the lower case display patch in memory instead of on the disk. If lower case display patches could be made in memory, then the opposite could be done also. By using the Pascal Memory Utility by Ron DeGroat in the same issue, I was able to determine the original values to give a normal upper case display. I then substituted these values into Dave Lievberman's procedure to return a lower case patch back to anormal upper case display. Listed is the assembly language procedure, LCAOFF and the program LCAKILL. I find it better to disable the lower case display only when needed instead of constantly executing a routine to enable the lower case display.

I have found that LCAKILL will work on some of the more sophisticated lower case display patches that modify System.Apple to give the missing charactersw and other features.

If you occasionally work on upper case only Apples, this program should help in avoiding having to maintain different System.Apple disks.

```
            .PROC LCAOFF

;THIS PROCEDURE DISABLES ANY LOWER CASE
;ADAPTER PATCHES MADE ON SYSTEM.APPLE.
;ALL CHANGES ARE MADE IN MEMORY BY
;RESETTING MEMORY LOCATIONS $DAAB,$DAAC,
;$DB9A TO THEIR ORIGINAL VALUES FOR
;DISPLAYING UPPER CASE AND PSEUDO UPPER
;CASE AS ORIGINALLY SET FOR APPLE PASCAL
;VERSION 1.1.
;
;ORIGINAL PROCEDURE TO DO AN IN-MEMORY
;LOWER CASE PATCH WAS WRITTEN BY DAVE
;LIEBERMAN 12-JUN-81 AND PUBLISHED IN
;CALL-A.P.P.L.E. IN DEPTH, 'ALL ABOUT
;PASCAL'.
;
;MODIFICATION TO HAVE PROCEDURE TURN OFF
;LOWER CASE PATCH IN MEMORY BY BOB
;BOUFFORD 26-MAR-83.

ADDR1     .EQU ODAAB
RAMON     .EQU OCO83
RAMCLR    .EQU OCO88

          LDA RAMON
          LDA RAMON

          LDA #233.
          STA ADDR1
          LDA #32.
          STA ADDR1+1
          LDA #128.
          STA ADDR1+239.

          LDA RAMCLR
          RTS

          .END
```

```
PROGRAM LCAKILL;

  PROCEDURE LCAOFF; EXTERNAL;

  (*LCAOFF MUST BE LINKED INTO LCAKILL*)

  BEGIN
    LCAOFF;
  END.
```

<end>

THIS MONTH AT THE MEETING....

colorado Computer Systems, Inc.

3039 West 74 th
(74th & Federal)
426-5880

Disk II Alternatives

by Bill Libecap

I have owned three types of non-apple disk drives which are the Rana Elite One, Rana Elite Three and Super 5w (half height Teac). All of these drives are compatible with any standard disk controller card and will boot any program that the Disk II will boot. However, I am more impressed with the features of these drives than with the features of the Disk II.

My first experience was with two Rana Elite One drives. These drives come with an Elite Enhancer Diskette which modifies DOS 3.3 and utilities to operate at 40 tracks and a faster seek time. Also, the Rana controller card, which is necessary to fully use the capacity of these drives, will control four disk drives of any Rana and Apple mixture, and will allow you to boot DOS 3.2 and 3.3 disks. The increased storage capacity of the Elite One (163K bytes) compared to the Disk II (143K bytes) can only be utilized by unprotected software.

Another unique feature of the Rana drives is the Touch to Protect switch which enables you to protect a disk without installing a Write Protect Tab. These drives carry the standard 90-day warranty as do Disk II drives. I made these observations over a six-month period of ownership. The reason I later sold my Elite Ones was because my data file had grown to a size of 420 sectors which soon would not fit on one disk.

My second experience with Rana was with the purchase of an Elite Three disk drive. This drive is cosmetically and physically identical to the Elite One. The Rana Elite Three has a storage capacity of 652K bytes which is four times the storage capacity of an Elite One and 4.6 times the storage capacity of a Disk II. Because of modifications to the DOS system this storage capacity and other enhancements can only be taken advantage of by using unprotected software and the Rana controller card.

The procedure for acquiring this amount of storage is accomplished by using half-tracks (i.e. 80 tracks per side) and using both sides of your diskette concurrently. One word of caution regarding the Elite Three: although this drive will read any Disk II formatted disk, a diskette that is written on an Elite Three can only be read by an Elite Three. Might I add that I have had no problems with my Elite Three during the three months I have owned it.

I am also currently using two Super 5w Teac drives. These drives are one-half the height of a standard Disk II drive. There are two models available: Super 5, which is 35 or 40 tracks and single-sided or Super 5w, which is 35,40 or 80 track compatible. These drives can be directly plugged into a Disk II controller card. However, access is limited to 35 or 40 tracks.

These drives are accompanied by a diskette to modify DOS and utilities for 40-track or 80-track mode. The controller card, which is a necessity to use the 80-track mode, will boot either DOS 3.2 or 3.3. However, this card cannot be used with the standard Disk II drive. The card will also

display the version of DOS found on the monitor screen.

The Super 5 drives seem to be most reliable and much more quiet than the Disk II drives I have observed.The Super 5 drives are also very stable speed wise. The modified DOS with its shorter seek times and increased storage capacity could be a great benefit. Keep in mind that these advantages can only be obtained through the use of unprotected software. A final note regarding the Super 5 drives is that there is a one-year warranty.

In conclusion, I do not want to pull people away from the Disk II system, nevertheless, the advantages mentioned above provided by the Rana and Super 5 systems make either the Elite One or Super 5 an ideal choice for a second disk drive. Additionally, the Rana Elite Three will maintain a large amount of on-line storage, but bear in mind that there is a write compatibility problem with other drives.

Thank you!

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APPLE WRITER II REFERENCE CARD

On the next two pages are an improved reference card for Apple Writer II designed by Keith McSorley of the Houston Area Apple Users Group. Besides providing more detail, the commands are listed by function. (The official card gives commands alphabetically, making it nearly worthless as a reference.) McSorley suggests photocopying the pages on stiffer paper stock or laminating them to stiff paper with rubber cement to make, when properly aligned, a 6.5x5" reference card.

Tabs (page 30)

[T]S	Sets TAB at cursor position
[T]C	Clears TAB at cursor position
[T]P	Purges all TABS
[Q]2	Saves current TAB settings
[Q]1	Loads selected TAB file
[Q]1?	Displays file catalog, add ",D1" or ",D2" to specify drive
[I]	Moves cursor to next TAB

Loading Files (page 21)

[L]:name	Load "name" into memory & place at cursor
[L]:name,D0	Same as above but specify drive number to read
[L]:name/X/Y/	Load the first segment found in "name" beginning at word "X" and ending at word "Y", place at cursor
[L]:name/X/Y/a	Load all segments found in "name" as above
[L]:name/X/Y/n	Load the first segment found in "name" as above BUT don't include words "X" & "Y"
[L]:name//mark/	Load a segment from "name" which starts at the beginning of "name" and ends at the "mark", place at cursor
[L]:name/mark/	Load a segment from "name" which begins at the "mark" and goes to the end of "name"
[L]:?	Display catalog of disk in last drive used
[L]:?,D0	Display catalog of disk in specified drive

Saving Files (page 16)

*** A FILENAME :
1 ... Cannot exceed 30 characters
2 ... Must begin with a letter
3 ... Cannot contain a comma

[S]:name	Saves "name" on disk in last drive used
[S]:name,D0	Saves "name" on disk in specified drive
[S]:=	Saves file to disk in drive last used under the filename shown on the data line
[S]:=,D0	As above, but on disk in specified drive
[S]:name/mark/	Saves a segment as "name", the segment begins at cursor and ends at the "mark"
[S]:name/mark/+	Appends the segment beginning at the cursor and ending at the "mark to the end of a file called "name"
[S]:name,d0+	Adds the text file in memory to the end of "name" on drive "0"
[S]:?	Display catalog of drive last used
[S]:?,D0	As above but specify drive

Glossary Commands (page 43)

*** A glossary phrase can be defined at any time. However to build a glossary file to save to disk type [N] to clear memory (NOTE: this will not clear glossary phrases in memory, use [G]* as described later to do this)

[G]7	Define a glossary phrase
----	Respond to prompt with the character which will represent the glossary phrase followed by the phrase itself terminated by a return (ie: %This is the phrase)
[G]*	Purges all glossary phrases in memory
[G]"character"	Will insert the glossary phrase represented by the "character" at the cursor
[S]:name,d0	Will save the glossary file on specified drive
[Q]5	will prompt you for a glossary filename then load the glossary file you name

Text Search &/or Replacement (page 36)

[F]	Search text from cursor - in the direction of the data line arrow
[F]:/xx/	Will find the first occurance of "xx" Successive "returns" will find more "xx"
[F]:/xx/yy/	Will find "xx" as above and then will replace it with "yy" after confirmation
[F]:/xx/yy/A	Will find and replace "xx" with "yy" automatically
[F]:=	Will repeat last instruction used with [F]ind option

Miscellaneous Commands

[C]		Automatically change the case of an entire word or line (page 49)
[K]	---->	Alpha lock, use with "reset" & shift reset to obtain upper & lower case (page 11)
[N]		Erases text file from memory, but not glossary phrases (page 21)
[O]		Displays DOS commands menu (page 27)
[Q]		Additional functions menu (page 14)
[Y]		Split screen display into two parts (page 50)
[V]		Allows control characters to be entered as text ie: not as Applewriter][commands (page 51)
[Z]		Turns word wrap-around on and off
Underlining		Set off phrase with backslashes (page 33)

>>>NOTE:<<< The ",D0" found above can be either upper or lower case and can be added to any of the above saving or loading commands. HOWEVER it must precede any slashes (/) ie: [S]:name,d2/mark/

Printing (page 57)

(P)NP	Prints the text currently in memory (page 68)
(P)CP	Continues printing (use to print more than one file as a single document - see page 68)
(P)?	Display printing format options for changing

---- To permanently change the defaults (page 72):

1) make whatever changes you desire
2) insure the Apple Writer][disk is in drive #1
3) press (Q)4 then in response to the "Enter file name:" prompt enter : sys,d1
4) NOTE: Shift key option ("E","S", or "U") is also saved with the new defaults

		Default value:
LM(number)	Sets the left margin to (number)	9
PM(number)	Indents/outdents paragraph margin to (number); relative to "LM"	0
RM(number)	Sets the right margin to (number)	79
TM(number)	Sets top margin to (number)	1
BM(number)	Sets bottom margin to (number)	1
PN(number)	Sets (number) of first page printed	1
PL(number)	Sets (number) of printed lines per page	58
PI(number)	Sets page interval (form length) to (number)	66
LI(number)	Sets (number) of spaces between lines	0
SP(0 or 1)	Selects continuous sheet feed (0) or single page (1) printing	0
PD(number)	Selects print device destination slot	1
CR(0 or 1)	Selects (1)/deselects (0) line feed signal to printer	0
LJ	Left justify (left margin is blocked)	
FJ	Fill Justify (spaces are added so that the left and right margins are blocked)	
CJ	Center justify (each line is centered)	
RJ	Right justify (right margin is blocked)	
TL	Specify top line headings	blank
BL	Specify bottom line headings	blank

The (P)rint/Program commands and the commands which follow can be embedded in your text by preceding them with a carriage return and a period. Each text-embedded command must be entered on a separate line.

.PP	Form Feed
.PP(number)	Conditional form feed (if less than (number) of lines left on page being printed)
.IN(text)	Stops printing and displays (text) on monitor
.EP(0 or1)	Suppresses (0) or enables (1) printing

Getting Started (For Apple][+) ** see footnote this page **

Users with pristine Apple][+'s just boot the Apple Writer][disk and skip all four (4) of the following steps:

Step 1 ---->	Boot the Applewriter][preboot disk
Step 2 ---->	Insert Applewriter][disk when requested and press "return" as asked
Step 3 ---->	Answer "y" to "Do you have inverse video display"
Step 4 ---->	Press "shift-reset" to obtain lower case and correct shift key operation (To use CAPS only - skip Step 4 or Press "reset")

Cursor Movement (page 7)

ESC ESC	Change to cursor move mode.
I	Up one line
J K	Left or Right one character
M	Down one line
E	Up 12 lines
S D	Left or Right one word (up to 24 characters)
X	Down 12 lines
(B)	Move cursor to beginning of file
(E)	Move cursor to end of file

Delete/Retrieve,Characters (page 10), Words & Paragraphs (page 34)

<---	Delete characters
--->	Retrieves characters
(D)	Changes direction of data line arrow
<	Will delete when arrow is in this direction
>	Will retrieve when arrow is in this direction
(W)	Causes the deletion/retrieval of the word and space preceding it to the left of the cursor
(X)	Causes the deletion/retrieval of paragraph (up to 1024 characters)to the left of the cursor
(R)	Replaces characters (ie: type over old stuff)

>>>NOTE<<< Step or command description which is preceded by a " ----> " applies only to those users who have Videx's 80 column card or their Enhancer][keyboard or both. Others will need to alter this text somewhat.

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